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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021 Date: 24.06.2020

TEST REPORT ON CEMENT

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri T Chandrashekar Reddy,** Contractor, Bangalore.
Name of Work : Maintenance of Burial Ground In Bahubali Nagar In Ward No 16, BBMP, Bangalore.

Sample ID: : Cement (Birla Super 53 grade OPC)
Sample Supplied by: : AGENCY
Date of Manufacture: : May-2020
Date of Testing 22.06.2020 to 24.06.2020

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	120 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	365 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00%	-

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021 Date 24.06.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri T Chandrashekar Reddy,** Contractor, Bangalore.
Name of Work : Maintenance of Burial Ground In Bahubali Nagar In Ward No 16, BBMP, Bangalore.
Date of Testing 24.06.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	62	6.20	6.20	93.8	90-100
2.36	124	12.40	18.60	81.4	75-100
1.18	174	17.40	36.00	64.0	55-90
600 Micron	239	23.90	59.90	40.1	35-59
300 Micron	163	16.30	76.20	23.8	8-30
150 Micron	148	14.80	91.00	9.0	0-10

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021 Date 24.06.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri T Chandrashekar Reddy,** Contractor, Bangalore.
Name of Work : Maintenance of Burial Ground In Bahubali Nagar In Ward No 16, BBMP, Bangalore.
Date of Testing 24.06.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	235	1.57	1.57	98.43	95-100
20	8569	57.13	58.69	41.31	30-70
10	3214	21.43	80.12	19.88	10-35
4.75	2654	17.69	97.81	2.19	0-5

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TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri T Chandrashekar Reddy,** Contractor, Bangalore.
Name of Work : Maintenance of Burial Ground In Bahubali Nagar In Ward No 16, BBMP, Bangalore.
Date of Testing 24.06.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	239	4.8	4.8	95.2	95-100
10	2874	57.5	62.3	37.7	25-55
4.75	1632	32.6	94.9	5.1	0-10

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021

Date 24.06.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri T Chandrashekar Reddy,** Contractor, Bangalore.
Name of Work : Maintenance of Burial Ground In Bahubali Nagar In Ward No 16, BBMP, Bangalore.

Date of Testing 24.06.2020
Material : Sand(Plastering)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	12	1.20	1.20	98.8	95-100
2.36	15	1.50	2.70	97.3	95-100
1.18	32	3.20	5.90	94.1	90-100
600 Micron	78	7.80	13.70	86.3	80-100
300 Micron	265	26.50	40.20	59.8	20-65
150 Micron	502	50.20	90.40	9.6	0-15

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021 Date 24.06.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri T Chandrashekar Reddy,** Contractor, Bangalore.
Name of Work : Maintenance of Burial Ground In Bahubali Nagar In Ward No 16, BBMP, Bangalore.

Date of Testing 24.06.2020
Material : Sand(Masonry) Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	18	1.80	1.80	98.2	90-100
1.18	32	3.20	5.00	95.0	70-100
600 Micron	82	8.20	13.20	86.8	40-100
300 Micron	248	24.80	38.00	62.0	5-70
150 Micron	498	49.80	87.80	12.2	0-15

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021 Date 25.06.2020

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri T Chandrashekar Reddy,** Contractor, Bangalore.
Name of Work : Maintenance of Burial Ground In Bahubali Nagar In Ward No 16, BBMP, Bangalore.
Steel Dia/Length : 8mm,10mm," TMT"
Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification
: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature
Date of test 25.06.2020

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	512	624	1.22	15
2	TMT	10	0.618	536	648	1.21	16

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021 Date 25.06.2020

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.

Agency : **Sri T Chandrashekar Reddy,** Contractor, Bangalore.

Name of the Work : Maintenance of Burial Ground In Bahubali Nagar In Ward No 16, BBMP, Bangalore.

Date of Testing 24.06.2020 to 25.06.2020

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	24.3	221.2	3.69	2025.00	Minimum required Compressive Strength of Individual Units 3.5 N/mm^2
2	Block 2	25.9	228.5	3.81	2158.33	
3	Block 3	26.7	232.1	3.87	2225.00	
4	Block 4	28.1	237.9	3.97	2341.67	

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021 Date: 08.07.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri T Chandrashekar Reddy,** Contractor, Bangalore.
Name of the work : Maintenance of Burial Ground In Bahubali Nagar In Ward No 16, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2020	08.07.2020	8.154	336.2	14.94
2	01.07.2020	08.07.2020	8.136	345.8	15.37
3	01.07.2020	08.07.2020	8.102	352.1	15.65

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021 Date: 29.07.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri T Chandrashekar Reddy,** Contractor, Bangalore.
Name of the work : Maintenance of Burial Ground In Bahubali Nagar In Ward No 16, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2020	29.07.2020	8.197	509.8	22.66
2	01.07.2020	29.07.2020	8.146	522.3	23.21
3	01.07.2020	29.07.2020	8.021	534.0	23.73

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021 Date: 08.07.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri T Chandrashekar Reddy,** Contractor, Bangalore.
Name of the work : Maintenance of Burial Ground In Bahubali Nagar In Ward No 16, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2020	08.07.2020	8.164	346.9	15.42
2	01.07.2020	08.07.2020	8.031	351.2	15.61
3	01.07.2020	08.07.2020	8.082	363.8	16.17

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021 Date: 29.07.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	**: Sri T Chandrashekar Reddy,** Contractor, Bangalore.
Name of the work	: Maintenance of Burial Ground In Bahubali Nagar In Ward No 16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2020	29.07.2020	8.052	505.9	22.48
2	01.07.2020	29.07.2020	8.132	516.7	22.96
3	01.07.2020	29.07.2020	8.196	533.1	23.69

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021 Date: 08.07.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	: **Sri T Chandrashekar Reddy,** Contractor, Bangalore.
Name of the work	: Maintenance of Burial Ground In Bahubali Nagar In Ward No 16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2020	08.07.2020	8.166	350.0	15.56
2	01.07.2020	08.07.2020	8.032	360.0	16.00
3	01.07.2020	08.07.2020	8.187	370.0	16.44

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2020	29.07.2020	8.196	485.6	21.58
2	01.07.2020	29.07.2020	8.182	492.3	21.88
3	01.07.2020	29.07.2020	8.112	500.1	22.23

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Name of the work	: Maintenance of Burial Ground In Bahubali Nagar In Ward No 16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2020	08.07.2020	8.021	329.6	14.65
2	01.07.2020	08.07.2020	8.036	334.7	14.88
3	01.07.2020	08.07.2020	8.054	342.1	15.20

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Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2020	29.07.2020	8.169	512.6	22.78
2	01.07.2020	29.07.2020	8.151	522.4	23.22
3	01.07.2020	29.07.2020	8.021	530.0	23.56

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Name of the work : Maintenance of Burial Ground In Bahubali Nagar In Ward No 16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2020	08.07.2020	8.183	336.5	14.96
2	01.07.2020	08.07.2020	8.167	348.2	15.48
3	01.07.2020	08.07.2020	8.122	359.0	15.96

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Compressive Strength as on : 28th day

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1	01.07.2020	29.07.2020	8.006	502.3	22.32
2	01.07.2020	29.07.2020	8.121	526.9	23.42
3	01.07.2020	29.07.2020	8.193	532.1	23.65

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